

HIGH-DENSITY, MINIATURIZED ARRAYS AND METHODS OF MANUFACTURING SAME

Abstract of the Disclosure

High-density, miniaturized arrays including high surface areas. Arrays
described include substrate with a coating of linking agents, as well as arrays with
reactants affixed to the substrates. Methods of manufacturing high-density arrays
of reactants. The methods include the use of oriented, heat shrink films and
elastomeric materials. Methods of functionalizing a substrate with linking agents
for subsequent affixation of reactants are also disclosed herein.